National Aeronautics and Space Administration
**Marshall Space Flight Center**

MATERIALS TEST DATA
COLLECTION AND DISSEMINATION

# Materials and Processes Technical Information System II (MAPTIS–II)

All candidate materials for space flight hardware are tested to identify usability and safety issues (e.g., toxicity, flammability, fracture, off-gassing). NASA's test results are collected, verified, and disseminated throughout the Agency via secure databases of record maintained on MAPTIS-II (http://www.maptis.nasa.gov).

## Aerospace materials information is available to support design decisions on issues that include:

- Physical and structural properties.
- Chemical compatibility.
- Thermophysical and thermal data.
- Thermal protection system.
- Space environmental effects.

## Sources

**Marshall Space Flight Center**
- Data for metals, nonmetals, polymers, and composites
- Combustion research
- Mechanical materials test results
- Material diagnostics

**White Sands Test Facility, Johnson Space Center**
- Chemical and physical properties
- Hazards assessment
- Oxygen compatibility

**Ames Research Center**
- Thermal protection materials and systems (TPS*X*) database

**Kennedy Space Center**

**Goddard Space Flight Center**

**Jet Propulsion Laboratory,**
**California Institute of Technology**

*Questions? Please contact:*

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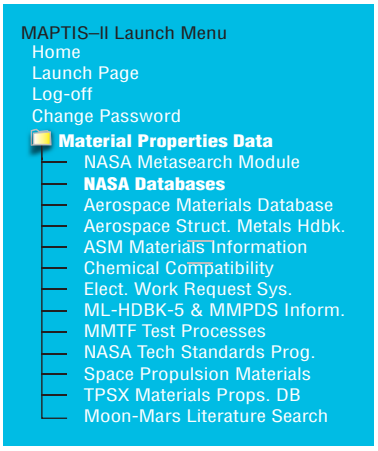
http://ed.msfc.nasa.gov/em/




These databases make an extremely broad range of aerospace materials information available via the Internet.

MAPTIS-II is NASA's authorized guide to materials that are safe to use in specific operating environments.

*Materials Engineering Core Capabilities*